ABSTRACT

A device for treatment of exhaust gases includes a housing; a fragile structure resiliently mounted within the housing; and a non-intumescent mounting mat disposed in a gap between the housing and the fragile structure. The mounting mat comprises melt-formed, leached glass fibers high in silica content and exerts a minimum holding pressure for holding the fragile structure within the housing of one of (i) at least 10 kPa after 1000 cycles of testing at a hot face temperature of 900°C, a gap bulk density of between 0.3 and 0.5 g/cm^3, and a percent gap expansion of 5 percent, and (ii) at least 50 kPa after 1000 cycles of testing at a hot face temperature of 300°C, a gap bulk density of between 0.3 and 0.5 g/cm^3, and a percent gap expansion of 2 percent.